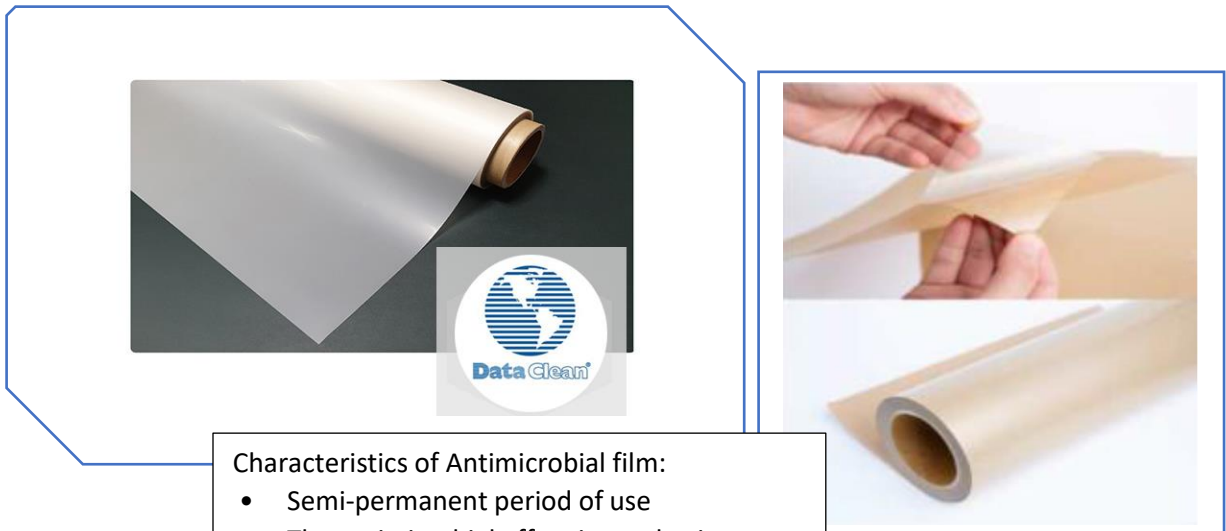




# Anti-Bacterial Copper Film

TAKE AIM AT COVID -19 WITH THE ANTI-BACTERIAL COPPER FILM!!

Data Clean Asia partners with renowned Korean manufacturer to bring you this **low cost yet highly effective virus prevention solution**. We are excited to share with you the Anti-bacterial copper film and how they impact efforts to stop the transmission of COVID-19 and other pathogens as our country begins its restart.



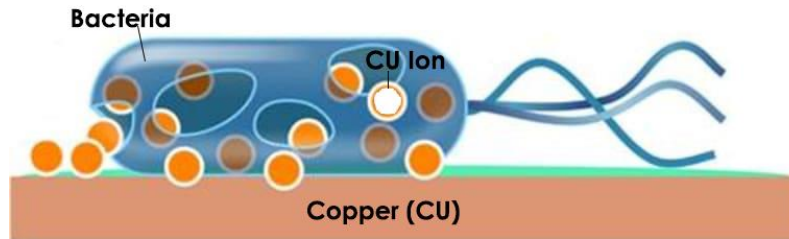
#### Characteristics of Antimicrobial film:

- Semi-permanent period of use
- The antimicrobial effect is everlasting (Please change the product depending on the damage of the film)
- Harmless to human
- Harmless to the environment.

Contaminated surfaces are one of the fastest possible vehicles in infection transmission . Copper (Cu)efficiently inactivates microbes by direct contact. Copper's disinfectant powers have long been known and its antibacterial, antiviral and anti-fungal properties have been supported by scientific studies everywhere. Labs all around the world have also commissioned testing on SARS-CoV-2, which causes COVID-19 and recorded how it reacts to copper surfaces. This result shows that 96% of the virus was killed off in two hours compared to no change on stainless steel and plastic surfaces over the same period of time.

## HOW IT WORKS

Here we demonstrate the antimicrobial activity on surfaces. The Antimicrobial Copper acts as an inhibitor of the virus replication.



- Bacteria recognizes the copper ion on the copper surface as an essential nutrient, so the bacteria absorb it into the cell.
- The absorbed copper ion penetrates the cell membrane, so the cell loses significant nutrients and water.
- Copper ion pulls the active oxygen ROS (Reactive oxygen species) through the penetrated hole of the cell membrane
- Bacteria gets serious prevention for respiratory and metabolic activity, which leads to complete extinction.

## WHERE AND HOW IS THE COPPER FILM APPLIED .



The copper film can be easily installed and applied on almost any frequently touched surfaces such as door handles, elevator buttons, hand rails and touch screen surfaces. This film comes with and without pressure sensitive adhesive.

It has been widely used in commercial buildings, shopping centers as well as in residential apartments all over Korea and has proven very effective in curbing the spread and transmission of the corona virus.



**Contact our Data Clean Asia sales representative to find out more!!**